



003027.00
Task 6

August 28, 2006

Mr. Bob Pace
Pace In/Out
P.O. Box 483
Keno, OR 97627

Dear Mr. Pace:

**SUBJECT: WORK PLAN FOR INSTALLING AN ADDITIONAL
MONITORING WELL, PACE IN/OUT, DORRIS, CALIFORNIA**

INTRODUCTION

This letter serves as the *Work Plan for Installing an Additional Monitoring Well, Pace In/Out, Case No. 1TSII71, 336 Main Street, Dorris, California*, dated August 28, 2006. This work plan was requested by the California Regional Water Quality Control Board, North Coast Region (NCRWQCB), in correspondence dated August 10, 2006. The project site is located as shown in **Figure 1**.

In their correspondence, the NCRWQCB concurred with our plan to implement bioventing/soil vapor extraction (SVE) and ozone injection as presented in Lawrence & Associates' (L&A) the *Work Plan for Conducting a Pilot Study for Soil Vapor Extraction and Ozone Injection, Addendum No. 1, Pace In/Out, Case No. 1TSII71, 336 Main Street, Dorris, California*, dated May 25, 2006. The NCRWQCB also requested a work plan to further delineate contamination limits, to be outlined in a written response to be submitted by September 8, 2006.

The following work plan addresses the NCRWQCB request as presented below.

DESCRIPTION OF PROPOSED WORK

The location of additional groundwater-monitoring wells is restricted because of the proximity of the Union Pacific Railroad right-of-way, as shown in **Figure 2**.

One 2-inch diameter groundwater monitoring well, designated as MW-8, will be installed in the location in **Figure 2**, and will be constructed as shown in **Figure 3**.

The monitoring well will be drilled with a CME-55 drill rig using hollow-stem augers, and will be installed during the same mobilization as the pilot study bioventing/SVE wells and ozone-spargers. The well boring will be logged using the Unified Soil Classification System, based on split-barrel samples collected at five-foot intervals and cuttings return between the intervals. The well will be monitored on a quarterly basis along with the existing wells.

Please contact me at (530) 244-9703 if you have any questions about this monitoring-well work plan.

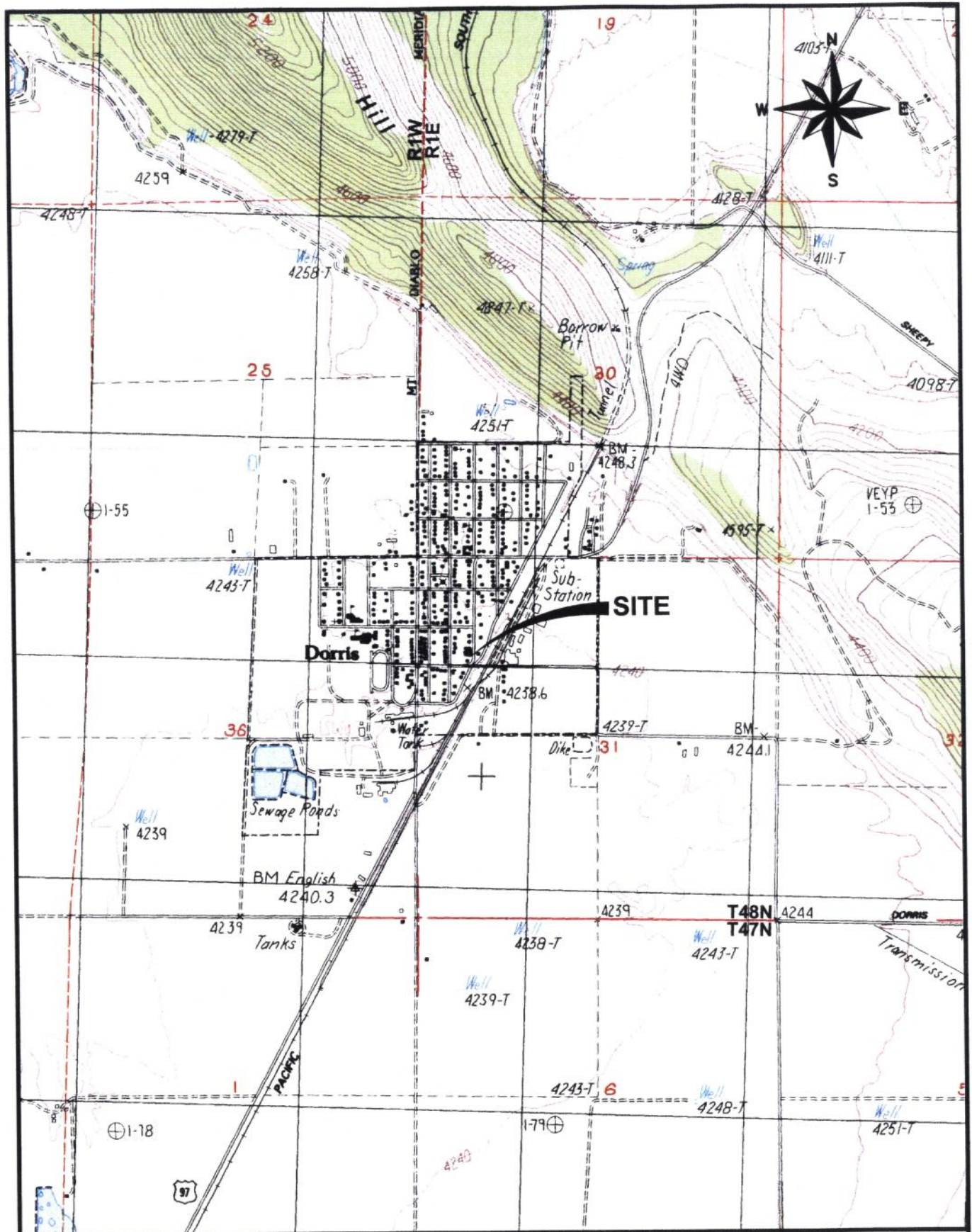
Sincerely,

Bryan W. Gartner

Bryan W. Gartner
Senior Geologist



- enc. **Figure 1.** Site-Location Map
 Figure 2. Proposed Wells, Probes, and Points for Pilot Study
 Figure 3. Typical Construction Detail For Groundwater-Monitoring Well
- cc: Mr. Cody Walker, California Regional Water Quality Control Board, North Coast Region
 Mr. John Ellis, Siskiyou County Public Health Department



SITE-LOCATION MAP

MAP ADAPTED FROM USGS 7.5-MINUTE
TOPOGRAPHIC QUAD, DORRIS, CALIF., 1985

LAWRENCE & ASSOCIATES
2001 MARKET STREET, RM. 523
REDDING, CA 96001

PHONE (530) 244-9703
FAX (530) 244-5021

SCALE: 1"=2,000'

DATE: 8/25/2006

JOB NO: 003027.00

CLIENT:
ROBERT & JANET PACE

PROJECT:
PILOT STUDY

DRAWN BY:
J. HOLDEN

FIGURE 1



BUILDING

FORMER BUILDING

FIRE DEPARTMENT

BUILDING

6000 GAL AST

TB-2
MW-5
<50

MW-4
<50

BUILDING

CANOPY

HIGHWAY 97

MW-2
11,000

MW-1
87,000

MW-3
98,000

MW-7
44,000

MW-6
8,100

MW-8

LEGEND

- MW-1 89,000 MONITORING-WELL LOCATION
TPH-GASOLINE CONCENTRATION IN GROUNDWATER, ug/L (6/1/05)
- 10000 TPH-GASOLINE CONCENTRATION CONTOUR, ug/L (6/1/05)
(DASHED WHERE INFERRED)
- TB-2 TEST BORING LOCATION, 2/18-19/02
- FORMER UST LOCATIONS
- MW-8 PROPOSED GROUNDWATER MONITORING WELL
- PROPOSED BIOVENTING/SOIL-VAPOR EXTRACTION (SVE) WELLS
- PROPOSED OZONE INJECTION POINTS
- PROPOSED SOIL-VAPOR MONITORING PROBES
- OZONE GENERATOR AND SUBSURFACE DISTRIBUTION TUBING

150' UNION PACIFIC
RIGHT-OF-WAY

RAILROAD TRACKS

HIGHWAY 97

PROPOSED WELLS, PROBES, AND POINTS FOR PILOT STUDY

LAWRENCE & ASSOCIATES
2001 MARKET STREET, RM. 523
REDDING, CA 96001
PHONE (530) 244-9703
FAX (530) 244-5021

SCALE: 1"=30'
DATE: 8/25/2006
JOB NO.: 003027.00

FIGURE 2

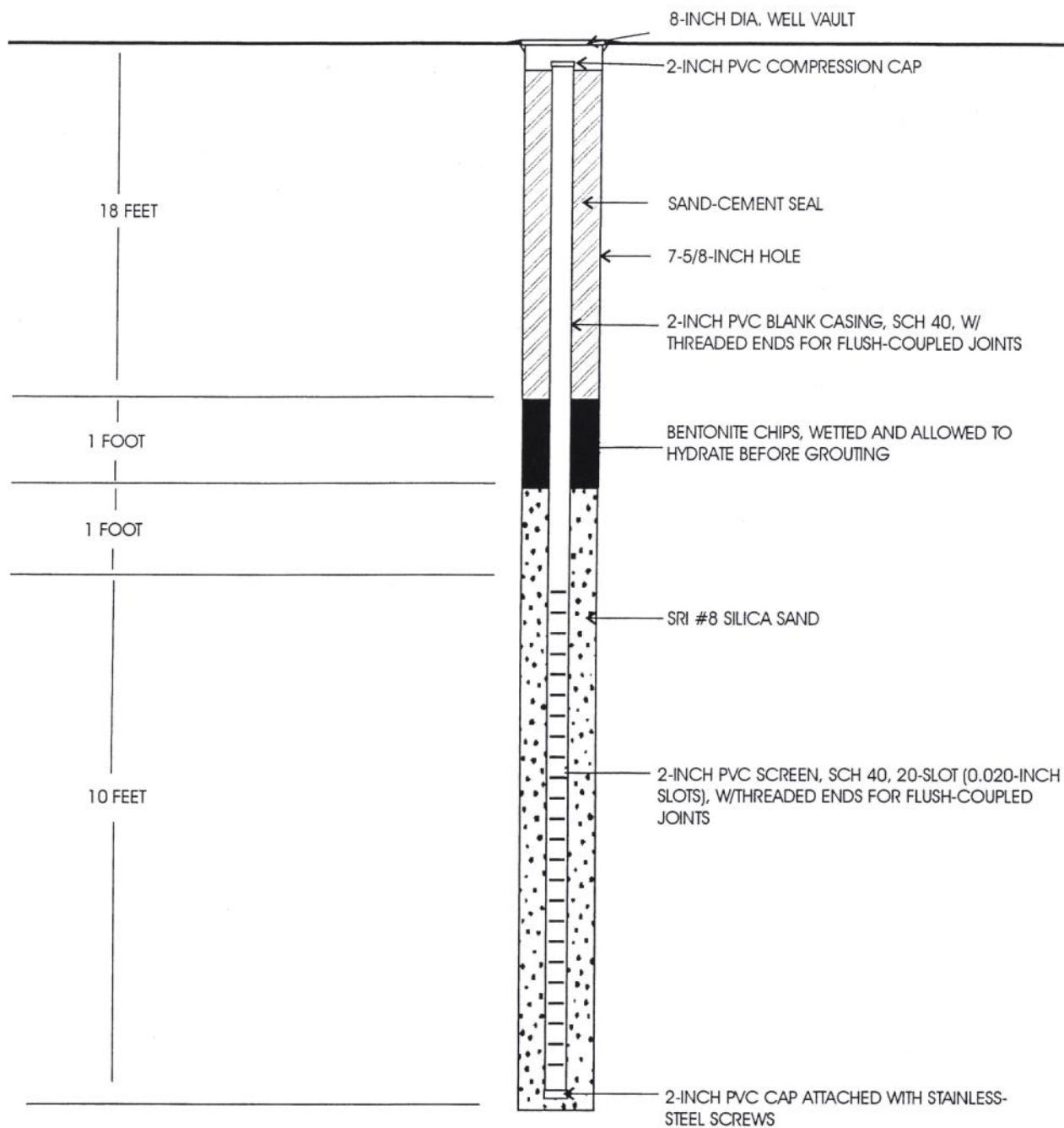
CLIENT: ROBERT AND JANET PACE

PROJECT: DORRIS SHELL - PILOT STUDY

DRAWN BY: J. HOLDEN

CHECKED BY: B. GARTNER

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**TYPICAL CONSTRUCTION DETAIL FOR
GROUNDWATER MONITORING WELL**

LAWRENCE & ASSOCIATES
2001 Market Street, Room 523
Redding, CA 96001

Phone (530) 244-9703
Fax (530) 244-5021

SCALE: AS SHOWN

DATE: AUGUST 24, 2006

JOB NO.: 003027.00

CLIENT: PACE IN/OUT

PROJECT: PILOT STUDY

DRAWN BY: B. GARTNER

FIGURE 3